

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Taejoon KWON et al.  
Serial No.: 10/773,507  
Filed: 02/05/2004  
Art Unit: 1631  
Examiner: Shubo Zhou  
Title: SYSTEM AND METHOD FOR DESIGNING PROBES USING  
HETEROGENEOUS GENETIC INFORMATION, AND COMPUTER READABLE  
MEDIUM  
Att. Docket YPL-0080

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**AMENDMENT AND RESPONSE**

This Amendment and Response is submitted in response to the Office Action dated September 28, 2006. Reconsideration and allowance of the case is respectfully requested in view of the amendments and the following remarks.

This response includes the following sections:

**Amendments to the Specification** begin on page 2 of this paper.

**Amendments to the Claims** begin on page 3 of this paper.

**Amendments to the Drawings** begin on page 8 of this paper.

**Remarks** begin on page 9 of this paper.

**Attachments:** Sequence Listing (paper and computer readable form (crf) as .txt file),

Statement About Content Of Sequence Listing Under 37 CFR 1.821(f) & (g);

Replacement sheet for Figure 6,

Marked-up sheet showing changes to Figure 6.

Please amend the Application as follows: